CONTENTS

Vols. 22-26

Author Index

Abbott, R. J. Resourceful Systems for Fault Tolerance, Reiliability, and Safety. Vol. 22, No. 1 (March 1990), 35–68.

Abbott, R. J. Surveyor's Forum: Response to Strigini's comments on "Resourceful Systems for Fault Tolerance, Reliability, and Safety." Vol. 23, No. 3 (Sept.1991), 409–411.

Abeysundara, B. W., and **Kamal, A. E.** High-Speed Local Area Networks and Their Performance: A Survey. Vol. 23, No.2 (June 1991), 221–264.

Aggarwal, J. K. See Arman, F. Vol. 25, No. 2 (March 1993), 5–43.

Ahuja, N. See Hwong, Y. K. Vol. 24, No. 3 (Sept. 1992), 219–291.

Andrews, G. R. Paradigms for Process Interaction in Distributed Programs. Vol. 23, No. 1 (March 1991), 49–90.

Arman, F., and **Aggarwal, J. K.** Model-Based Object Recognition in Dense-Range Images: A Review. Vol. 25, No. 1 (March 1993), 5–43.

Aurenhammer, I. Voronoi Diagrams—A Survey of a Fundamental Geometric Data Structure Vol. 23, No. 3 (Sept. 1991), 345–406.

Bacon, D. F., Graham, S. L., and **Sharp, O. J.** Compiler Transformations for High-Performance Computing. Vol. 26, No. 4 (Dec. 1994), 345–420.

Bailey, M. L., Briner, J. V., Jr., and **Chamberlain, R. D.** Parallel Logic Simulation of VLSI Systems. Vol. 26, No. 3 (Sept. 1994), 255–294.

Barborak, M., Malek, M., and **Dahbura, A.** The Consensus Problem in Fault-Tolerant Computing. Vol. 25, No. 2 (June 1993), 171–220.

Barghouti, N. S., and **Kaiser, G. E.** Concurrency Control in Advanced Database Applications. Vol. 23, No. 3 (Sept. 1991), 269–318.

Barkmeyer, E. See Thomas, G. Vol. 22, No. 3 (Sept. 1990), 237–266.

Baskerville, R. Information Systems Security Design Methods: Implications for Information Systems Development. Vol. 25, No. 4 (Dec. 1993), 375–414.

Bhaskar, S. See Gupta, R. Vol. 26, No. 1 (March 1994), 7–86.

Brancheau, J. C., and **Brown C. V.** The Management of End-User Computing: Status and Directions. Vol. 25, No. 4 (Dec. 1993), 437–482.

Brinch Hansen, P. Householder Reduction of Linear Equations. Vol. 24, No. 2 (June 1992), 185–194.

Briner, J. V., Jr. See Bailey, M. L. Vol. 26, No. 3 (Sept. 1994), 255–294.

Brown, C. V. See Brancheau, J. C. Vol. 25, No. 4 (Dec. 1993), 437–482.

Brown, L. G. A Survey of Image Registration Techniques. Vol. 24, No. 4 (Dec. 1992), 325–376.

Bryant, R. E. Symbolic Boolean Manipulation with Ordered Binary-Decision Diagrams. Vol. 24, No. 3 (Sept. 1992), 293–318.

Bull, A. R. See Landwehr, C. E. Vol. 26, No. 3 (Sept. 1994), 211–254.

Carter. F. See Thomas, G. Vol. 22 No. 3 (Sept. 1990), 237–266.

Chamberlain, R. D. See Bailey, M. L. Vol. 26, No. 3 (Sept. 1994), 255–294.

Chanson, S. T. See Chin, R. S. Vol. 23, No. 1 (March 1991), 91–124.

Chassin de Kergommeaux, J., and **Codognet, P.** Parallel Logic Programming Systems. Vol. 26, No. 3 (Sept. 1994), 295–336.

Chen, P. M., Lee, E. K., Gibson, G. A., Katz, R. H., and **Patterson, D. A.** RAID: High-Performance, Reliable Secondary Storage. Vol. 26, No. 2 (June 1994), 145–186.

Chin, R. S., and **Chanson, S. T.** Distributed Object-Based Programming Systems. Vol. 23, No. 1 (March 1991), 91–124.

Choi, W. S. See Landwehr, C. E. Vol. 26, No. 3 (Sept. 1994), 211–254.

Chung, C.-W. See Thomas G. Vol. 22, No. 3 (Sept. 1990), 237–266.

Codognet, P. See Chassin de Kergommeaux, J. Vol. 26, No. 3 (Sept. 1994), 295–336.

Crowston, K. See Malone, T. W. Vol. 26, No. 1 (March 1994), 87–119.

Dahbura, A. See Barborak, M. Vol. 25, No. 2 (June 1993), 171–220.

Dunham, C. B. Surveyors' Forum. Vol. 24, No. 3 (Sept. 1992), 319.

Eich, M. H. See Mishra, P. Vol. 24, No. 1 (March 1992), 63–113.

CONTENTS

Vols. 22-26

Author Index

Abbott, R. J. Resourceful Systems for Fault Tolerance, Reiliability, and Safety. Vol. 22, No. 1 (March 1990), 35–68.

Abbott, R. J. Surveyor's Forum: Response to Strigini's comments on "Resourceful Systems for Fault Tolerance, Reliability, and Safety." Vol. 23, No. 3 (Sept.1991), 409–411.

Abeysundara, B. W., and **Kamal, A. E.** High-Speed Local Area Networks and Their Performance: A Survey. Vol. 23, No.2 (June 1991), 221–264.

Aggarwal, J. K. See Arman, F. Vol. 25, No. 2 (March 1993), 5–43.

Ahuja, N. See Hwong, Y. K. Vol. 24, No. 3 (Sept. 1992), 219–291.

Andrews, G. R. Paradigms for Process Interaction in Distributed Programs. Vol. 23, No. 1 (March 1991), 49–90.

Arman, F., and **Aggarwal, J. K.** Model-Based Object Recognition in Dense-Range Images: A Review. Vol. 25, No. 1 (March 1993), 5–43.

Aurenhammer, I. Voronoi Diagrams—A Survey of a Fundamental Geometric Data Structure Vol. 23, No. 3 (Sept. 1991), 345–406.

Bacon, D. F., Graham, S. L., and **Sharp, O. J.** Compiler Transformations for High-Performance Computing. Vol. 26, No. 4 (Dec. 1994), 345–420.

Bailey, M. L., Briner, J. V., Jr., and **Chamberlain, R. D.** Parallel Logic Simulation of VLSI Systems. Vol. 26, No. 3 (Sept. 1994), 255–294.

Barborak, M., Malek, M., and **Dahbura, A.** The Consensus Problem in Fault-Tolerant Computing. Vol. 25, No. 2 (June 1993), 171–220.

Barghouti, N. S., and **Kaiser, G. E.** Concurrency Control in Advanced Database Applications. Vol. 23, No. 3 (Sept. 1991), 269–318.

Barkmeyer, E. See Thomas, G. Vol. 22, No. 3 (Sept. 1990), 237–266.

Baskerville, R. Information Systems Security Design Methods: Implications for Information Systems Development. Vol. 25, No. 4 (Dec. 1993), 375–414.

Bhaskar, S. See Gupta, R. Vol. 26, No. 1 (March 1994), 7–86.

Brancheau, J. C., and **Brown C. V.** The Management of End-User Computing: Status and Directions. Vol. 25, No. 4 (Dec. 1993), 437–482.

Brinch Hansen, P. Householder Reduction of Linear Equations. Vol. 24, No. 2 (June 1992), 185–194.

Briner, J. V., Jr. See Bailey, M. L. Vol. 26, No. 3 (Sept. 1994), 255–294.

Brown, C. V. See Brancheau, J. C. Vol. 25, No. 4 (Dec. 1993), 437–482.

Brown, L. G. A Survey of Image Registration Techniques. Vol. 24, No. 4 (Dec. 1992), 325–376.

Bryant, R. E. Symbolic Boolean Manipulation with Ordered Binary-Decision Diagrams. Vol. 24, No. 3 (Sept. 1992), 293–318.

Bull, A. R. See Landwehr, C. E. Vol. 26, No. 3 (Sept. 1994), 211–254.

Carter. F. See Thomas, G. Vol. 22 No. 3 (Sept. 1990), 237–266.

Chamberlain, R. D. See Bailey, M. L. Vol. 26, No. 3 (Sept. 1994), 255–294.

Chanson, S. T. See Chin, R. S. Vol. 23, No. 1 (March 1991), 91–124.

Chassin de Kergommeaux, J., and **Codognet, P.** Parallel Logic Programming Systems. Vol. 26, No. 3 (Sept. 1994), 295–336.

Chen, P. M., Lee, E. K., Gibson, G. A., Katz, R. H., and **Patterson, D. A.** RAID: High-Performance, Reliable Secondary Storage. Vol. 26, No. 2 (June 1994), 145–186.

Chin, R. S., and **Chanson, S. T.** Distributed Object-Based Programming Systems. Vol. 23, No. 1 (March 1991), 91–124.

Choi, W. S. See Landwehr, C. E. Vol. 26, No. 3 (Sept. 1994), 211–254.

Chung, C.-W. See Thomas G. Vol. 22, No. 3 (Sept. 1990), 237–266.

Codognet, P. See Chassin de Kergommeaux, J. Vol. 26, No. 3 (Sept. 1994), 295–336.

Crowston, K. See Malone, T. W. Vol. 26, No. 1 (March 1994), 87–119.

Dahbura, A. See Barborak, M. Vol. 25, No. 2 (June 1993), 171–220.

Dunham, C. B. Surveyors' Forum. Vol. 24, No. 3 (Sept. 1992), 319.

Eich, M. H. See Mishra, P. Vol. 24, No. 1 (March 1992), 63–113.

Elmagarmid, A. K., and **Pu, C.** Introduction to the Special Issue on Heterogeneous Databases. Vol. 22, No. 3 (Sept. 1990), 175–178.
Eschermann, B. State Assignment for Hardwire VLSI Control Units. Vol. 25, No. 4 (Dec. 1993), 415–436.
Estivill-Castro, V., and **Wood D.** A Survey of Adaptive Sortring Algorithms. Vol. 24, No. 4 (Dec. 1992), 441–476.
Fox, S. See Thomas, G. Vol. 22, No. 3 (Sept. 1990), 237–266.
Frieder, G. See Stytz, M. R. Vol. 23, No. 4 (Dec. 1991), 421–500.
Frieder, O. See Stytz, M. R. Vol. 23, No. 4 (Dec. 1991), 421–500.
Fua, P. See Suetens, P. Vol. 24, No. 1 (March 1992), 5–61.
Galil, Z., and **Italiano, G. F.** Data Structures and Algorithms for Disjoint Set Union Problems. Vol. 23, No. 3 (Sept. 1991), 319–344.
Gibson, G. A. See Chen, P. M. Vol. 26, No. 2 (June 1994), 145–186.
Goldberg, D. What Every Computer Scientist Should Know About Floating-Point Arithmetic. Vol. 23, No. 1 (March 1991), 5–48.
Graefe, G. Query Evaluation Techniques for Large Databases. Vol. 25, No. 2 (June 1993), 73–170.
Graham, S. L. See Bacon, D. F. Vol. 26, No. 4 (Dec. 1994), 345–420.
Gupta, R., Smolka, S. A., and **Bhaskar, S.** On Randomization in Sequential and Distributed Algorithms. Vol. 26, No. 1 (March 1994), 7–86.
Hanson A. J. See Suetens, P. Vol. 24, No. 1 (March 1992), 5–61.
Harris, T. J. A Survey of PRAM Simulation Techniques. Vol. 26, No. 2 (June 1994), 187–206.
Hartman, B. See Thomas, G. Vol. 22, No. 3 (Sept. 1990), 237–266.
Hwong, Y. K., and **Ahuja, N.** Gross Motion Planning—A Survey. Vol. 24, No. 3 (Sept. 1992), 219–291.
Israel, M. See Wegner, P. Vol. 26, No. 4 (Dec. 1994), 337–339.
Italiano, G. F. See Galil, Z. Vol. 23, No. 3 (Sept. 1991), 319–344.
Kaiser, G. E. See Barghouti, N. S. Vol. 23, No. 3(Sept. 1991), 269–318.
Kamal, A. E. See Abeysundara, B. W. Vol. 23, No. 2 (June 1991), 221–264.
Katz, R. H. See Chen, P. M. Vol. 26, No. 2 (June 1994), 145–186.
Katz, R. H. Toward a Unified Framework for Version Modeling in Engineering Databases. Vol. 22, No. 4 (Dec. 1990), 375–408.
Krueger, C. Software Reuse. Vol. 24, No. 2 (June 1992), 131–183.
Kukich, K. Techniques for Automatically Correcting Words in Text. Vol. 24, No. 4 (Dec. 1992), 377–440.
Landwehr, C. E., Bull, A. R., McDermott, J. P., and **Choi, W. S.** A Taxonomy of Computer Program Security Flaws. Vol. 26, No. 3 (Sept. 1994), 211–254.
Larson, J. A. See Sheth, A. P. Vol. 22, No. 3 (Sept. 1990), 184–236.
Lee, E. K. See Chen, P. M. Vol. 26, No. 2 (June 1994), 145–186.
Lee, S. and **Shin, K. G.** Probabilistic Diagnosis of Multiprocessor Systems. Vol. 26, No. 1 (March 1994), 121–139.
Levy, E., and Silberschatz, A. Distributed File Systems: Concepts and Examples. Vol. 22, No. 4 (Dec. 1990), 321–374.
Lilja, D. J. Cache Coherence in Large-Scale Shared-Memory Multiprocessors: Issues and Comparisons. Vol. 25, No. 3 (Sept. 1993), 303–338.
Litwin, W., Mark, L., and **Roussopoulos, N.** Interoperability of Multiple Autonomous Databases. Vol. 22, No. 3 (Sept. 1990), 267–293.
Malek, M. See Barborak, M. Vol. 25, No. 2 (June 1993), 170–220.
Malone, T. W., and **Crowston, K.** The Interdisciplintary Study of Coordination. Vol. 26, No. 1 (March 1994), 87–119.
Mandl, R. Surveyors' Forum. Vol. 22, No. 2 (June 1990), 171.
March, S. T. Editorial Policy. Vol. 22, No. 2 (June 1990), 73–81.
March, S. T. Editorial Policy. Vol. 23, No. 2 (June 1991), 133–141.
March, S. T. Editorial Policy. Vol. 24, No. 2 (June 1992), 117–125.
Mark, L. See Litwin, W. Vol. 22, No. 3 (Sept. 1990), 267–293.
Matoušek, J. Geometric Range Searching. Vol. 26, No. 4 (Dec. 1994), 421–461.
Mazumder, P. See Shahookan, K. Vol. 23, No. 2 (June 1991), 143–220.
McDermott, J. P. See Landwehr, C. E. Vol. 26, No. 3 (Sept. 1994), 211–254.
McGeoch, C. Analyzing Algorithms by Simulation: Variance Reduction Techniques and Simulation Speedups. Vol. 24, No. 2 (June 1992), 195–212.
McKenzie, L. E., and **Snodgrass, R. T.** An Evaluation of Relational Algebras Incorporating the Time Dimension in Databases. Vol. 23, No. 4 (Dec. 1991), 501–543.

Mishra, P., and **Eich, M. H.** Join Processing in Relational Databases. Vol. 24, No. 1 (March 1992), 63–113.
Muntz, R. R. Scope and Charter. Vol. 26, No. 1 (March 1994), 1.
Muntz, R. R. A Personal Note. Vol. 24, No. 3 (Sept 1992), 213–214.
Nelson, R. D. The Mathematics of Product Form Queuing Networks. Vol. 25, No. 3 (Sept.1993), 339–369.
Norman, M. G., and **Thanisch, P.** Models of Machines and Computation for Mapping in Multicomputers. Vol. 25, No. 3 (Sept. 1993), 263–302.
Onvural, R. O. Survey of Closed Queueing Networks with Blocking. Vol. 22, No. 2 (June 1990), 83–121.
Patterson, D. A. See Chen, P. M. Vol. 26, No. 2 (June 1994), 145–186.
Pawlikowski, K. Steady-State Simulation of Queueing Processes: A Survey of Problems and Solutions. Vol. 22, No. 2 (June 1990), 124–170.
Pu, C. See Elmagarmid, A. K. Vol. 22, No. 3 (Sept. 1990), 175–178.
Rosenblum, D. S. See Sankar, S. Vol. 23, No. 1 (March 1991), 125–127.
Roussopoulos, N. See Litwin, W. Vol. 22, No. 3 (Sept. 1990), 267–293.
Sankar, S., and **Rosenblum, D. S.** Surveyor's Forum: Routine Checking and Debugging of Formally Specified Programs. Vol. 23, No. 1 (March 1991), 125–127.
Schneider, F. B. Implemention Fault-Tolerant Services Using the State Machine Approach: A Tutorial. Vol. 22, No. 4 (Dec. 1990), 299–319.
Schneider, M. Self-Stabilizating. Vol. 25, No. 1 (March 1993), 45–67.
Shahookar, K, and **Mazumder, P.** VLSI Placement Techniques. Vol. 23, No. 2 (June 1991), 143–220.
Shankar, A. U. An Introduction to Assertional Resoning for Concurrent Systems. Vol. 25, No. 3 (Sept. 1993), 225–262.
Sharp, O. J. See Bacon, D. F. Vol. 26, No. 4 (Dec. 1994), 345–420.
Sheth, A. P., and **Larson, J. A.** Federated Database Systems for Managing Distributed, Heterogeneous, and Autonomous Databases. Vol. 22, No. 3 (Sept. 1990), 184–236.
Shin, K. G. See Lee, S. Vol. 26, No. 1 (March 1994), 121–139.
Silberschatz, A. See Levy, E. Vol. 22, No. 4 (Dec. 1990), 321–374.
Smolka, S. A. See Gupta, R. Vol. 26, No. 1 (March 1994), 7–86.
Snodgrass, R. T. See McKenzie, L. E. Vol. 23, No. 4 (Dec. 1991), 501–543.
Strigini, L. Surveyor's Forum: Comments on "Resourceful Systems for Fault Tolerance, Reliability and Safety". Vol. 23, No. 3 (Sept. 1991), 407–409.
Stytz, M. R., Frieder, G., and **Frieder, O.** Three-Dimensional Medical Imaging: Algorithms and Computer Systems. Vol. 23, No. 4 (Dec. 1991), 421–500.
Suetens, P., Fua, P., and **Hanson, A. J.** Computational Strategies for Object Recognition. Vol. 24, No. 1 (March 1992), 5–61.
Templeton, M. See Thomas, G. Vol. 22, No. 3 (Sept. 1990), 237–266.
Thanisch, P. See Norman, M. G. Vol. 25, No. 3 (Sept. 1993), 263–302.
Thomas, G., Thompson, G. R., Chung, C.-W., Barkmeyer, E., Carter, F., Templeton, M., Fox, S., and **Hartman, B.** Heterogeneous Distributed Database Systems for Production Use. Vol. 22, No. 3 (Sept. 1990), 237–266.
Thompson, G. R. See Thomas, G. Vol. 22, No. 3 (Sept. 1990), 237–266.
Van de Goor, A. J., and **Verruijt, C. A.** An Overview of Deteministic Functional RAM Chip Testing. Vol. 22, No. 1 (March 1990), 5–33.
Verruijt, C. A. See Van de Goor, A. J. Vol. 22, No. 1 (March 1990), 5–33.
Wegner, P. and **Israel, M.** Editorial Directions. Vol. 26, No. 4 (Dec. 1994), 337–339.
Verruijt, C. A. See Van de Goor, A. J. Vol. 22, No. 1 (March 1990), 5–33.
Wichmann, B. A. Surveyors' Forum. Vol. 24, No. 3 (Sept. 1992), 319.
Wood, D. See Estivill-Castro, V. Vol. 24, No. 4 (Dec. 1992), 441–467.

Subject Index 1990–1994

Algorithms

Galil and Italiano	September 1991
Aurenhammer	September 1991
McGeoch	June 1992
Bryant	September 1992
Estivill-Castro and Wood	December 1992
Gupta, Smolka, and Bhaskar	March 1994
Matoušek	December 1994

Artificial Intelligence

Kukich	December 1992

Compilers

Bacon, Graham, and Sharp	December 1994

Computer Architecture; IC Design

Van de Goor and Verruijt	March 1990
Shahookar and Mazumder	June 1991

Computer System Design

Goldberg	March 1991
Lilja	September 1993
Eschermann	December 1993

Computer Systems Management

Baskerville	December 1993
Malone and Crowston	March 1994

Data Communications and Networks

Abeysundara and Kamal	June 1991

Database Management

Sheth and Larson	September 1990
Thomas, Thompson, Chung, Barkmeyer, Carter, Templeton, Fox, and Hartman	September 1990
Litwin, Mark, and Roussopoulos	September 1990
Katz	December 1990
Barghouti and Kaiser	September 1991
McKenzie and Snodgrass	December 1991
Mishra and Eich	March 1992
Graefe	June 1993

Distributed and Cooperative Computing

Andrews	March 1991

Fault-Tolerant Computing

Abbott	March 1990
Barborak, Marek, Dahbura	June 1993
Lee and Shin	March 1994

Graphics and Image Processing

Stytz, Frieder, and Frieder	December 1991
Suetens, Fua, and Hanson	March 1992
Hwang and Ahuja	September 1992
Brown	December 1992
Arman and Aggarawal	March 1993

Information Systems Applications

Brancheau and Brown	December 1993

Networks: Distributed Computing

Schneider	December 1990
Schneider	March 1993

Operating Systems

Levy and Silberschatz	December 1990
Chin and Chanson	March 1991

Parallel Computing

Norman, Thanisch	September 1993
Harris	June 1994
Chassin de Kergommeaux and Codognet	September 1994

Performance Modeling

Onvural	June 1990
Nelson	September 1993
	June 1994

Programming Languages

Chassin de Kergommeaux and Codognet	September 1994

Programming Methods, Validation, Testing

Krueger	June 1992
Brinch Hansen	June, 1992
Shankar	September 1993

Security

Landwehr, Bull, McDermott, and Choi	September 1994

Simulation and Modeling

Pawlikowski	June 1990
Bailey, Briner, and Chamberlain	September 1994

Storage Systems

Chen, Lee, Gibson, Katz, and Patterson	June 1994

User Psychology

Van de Goor and Verruijt	March 1990
Shahookar and Mazumder	June 1991